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Notice of Allowability	Application No.	Applicant(s)	
	10/629,109	LIU ET AL.	
	Examiner	Art Unit	
	son t dinh	2824	
Th MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	application. If not include on will be mailed in due	led course. THIS
1. This communication is responsive to			
2. \boxtimes The allowed claim(s) is/are <u>1-25</u> .			
3. $oxed{\boxtimes}$ The drawings filed on <u>29 July 2003</u> are accepted by the Ex	aminer.		
4. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give (a) ☐ including changes required by the Notice of Draftsperson 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.5 each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail Date DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F	been received. been received in Application No. cuments have been received in this of this communication to file a replent of this application. Itted. Note the attached EXAMINE is reason(s) why the oath or declar to be submitted. on's Patent Drawing Review (PTO Amendment / Comment or in the least of BIOLOGICAL MATERIAL	s national stage applicately complying with the result of	equirements
Attachm nt(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 7/29/02 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's Staten	y (PTO-413), ate dment/Comment nent of Reasons for Allo	·
of Biological Material	9. ⊠ Other <u>East search</u>	history.	W/
	_	MULLA Son T. Dinh	

Son T. Dinn
Primary Examiner

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The following is an examiner's statement of reasons for allowance:

The prior art of record fail to teach or suggest a memory device comprising a memory array including a plurality of primary columns and a plurality of redundant columns, a plurality of redundant register circuits, each comprising a redundant cascade shift register, a plurality of primary register, each comprising a primary cascaded shift register, a bitline latch comprising a plurality of primary bitline latch grouping and a plurality of redundant bitline latch grouping, a bypass logic for selectively daisy chaining the redundant cascaded shift registers and the primary cascaded shift registers.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Son Dinh whose telephone number is 571-272-1868.

The examiner can normally be reached on 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on 571-272-1869. The fax phone number for the organization where this application or proceeding is assigned is 571-273-1868.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S. Dinh May 28, 2004 Son T. Dinh
Primary Examiner